

Utah Division of Water Quality: Proposed Antidegradation Level II Review --- Pending

Data Input & Results for Antidegradation Level I Review [Off-Ramps]

Upstream [Above Discharge] Condition

12 Mile Creek

Flow:	1.00	7Q10 cfs
	5.00	Average
Conc.:	0.0500	mg/l

Baseline Concentration:

Current Conc.:	0.050	mg/l
Proposed Conc.:	0.056	

Discharge Information

Mayfield RO Discharge

Existing Discharge

Flow:	0.000	MGD
Conc.:	0.000	mg/l

Renewal (or New) Discharge

Flow:	0.050	MGD	0.077 cfs
Conc.:	0.129	mg/l	

Parameter of Concern:

Water Quality Standard:

NH3
1.3500 mg/l

Parameter	WQ Std.

Current DWQ Antidegradation Procedure: R317.2

Proposed Discharge Conc. <= Current Discharge Conc:		No
Water Quality Impacts are Minor:		
Increase in Project Loading < 20%:	6.46E+12	No
Increase in Pollution Loading is < 20% over Background [Avg] After Mix:	20.00%	No
Small Discharge Volume		
Stream flow (avg) / Discharge Flow >100:1	154.70	Yes
Stream flow (7Q10) / Discharge Flow >25:1	12.93	No
Stream increase conc. < 10%	11.38%	No

Note: Background area is where the comparison for antidegradation is evaluated, i.e., in the mixing zone below the discharge. Also called the baseline.

Level II Required [One must be Yes for Off-ramp]

Level II Required [All must be Yes for Off-ramp]

Level II Required

yes

DWQ/EPA Proposed Calculations 12/6/2007

#1: Proposed Conc. In Baseline <= Current Conc.

Condition Not Met

#5(a): Comparison of Baseline Concentration

#5(b): Comparison of Baseline Concentration

#5(c): Comparison of Baseline Concentration

to Water Quality Standard < 50% **50.0%**

to Water Quality Standard >= 50% - < 75%

to Water Quality Standard >= 75% **75.0%**

Actual %: 4.1%

Actual %: 4.1%

Actual %: 4.13%

Applies

Does Not Apply

Does Not Apply

Baseline Assimilative Capacity

Baseline Assimilative Capacity

Baseline Assimilative Capacity

Allowable to be Used: **20.0%**

Allowable to be Used: **10.0%**

Allowable to be Used: **0.0%**

Actual % Used: 0.44%

Actual % Used: 0.44%

Actual % Used: 0.44%

Condition Met

Level II NOT Required

no

Concentration Evaluation:

Applicable Water Quality Standard:	1.3500 mg/l	100.0% Water Quality Standard
Background Concentration:	0.0500 mg/l	3.70% Utilized by Background
Remaining Assimilative Concentration Capacity:	1.3000 mg/l	96.3% Remaining
Baseline Concentration [1st Pass]:	0.0500 mg/l	3.70% Utilized by Background & Current Discharge
Remaining Assimilative Concentration Capacity:	1.3000 mg/l	96.3% Remaining
Baseline Concentration [2nd Pass]:	0.0557 mg/l	4.13% Utilized by Background, Current Discharge, & Proposed Discharge
Remaining Assimilative Concentration Capacity:	1.2943 mg/l	95.9% Remaining